

best pip.coc

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SPAR HRA Human Error Worksheet (Page 1 of 1) Best Case

Plant: _____ Initiating Event: _____ Sequence Number: _____ Basic Event Code: HEP-DIAG-SFPLPI

Basic Event Context: _____

Basic Event Description: _____

Does this task contain a significant amount of diagnosis activity? YES ☒ (start with Part I, p. 1) NO (skip Part I, p. 1; start with Part II, p.

2) Why? _____

Part I. DIAGNOSIS

A. Evaluate PSFs for the diagnosis portion of the task.

PSFs	PSF Levels	Multiplier for Diagnosis	If non-nominal PSF levels are selected, please note specific reasons in this column
Available Time	Inadequate time	P(failure) = 1.0	Time expansive due to boil off and leakage ratio.
	Barely adequate time <20 min	10	
	Nominal time \approx 30 min	1	
	Extra time >60 min	0.1	
	Expansive time >24 hrs	0.01 X	
Stress	Extreme	5	Stress high due to alarms.
	High	2 X	
	Nominal	1	
Complexity	Highly complex	5	
	Moderately complex	2	
	Nominal	1 X	
	Obvious diagnosis	0.1	
Experience/Training	Low	10	Highly trained.
	Nominal	1	
	High	0.5 X	
Procedures	Not available	50	Diagnostic procedures available
	Available, but poor	5	
	Nominal	1	
	Diagnostic/symptom oriented	0.5 X	
Ergonomics	Missing/Misleading	50	Well laid out and labeled alarms that match procedures.
	Poor	10	
	Nominal	1	
	Good	0.5 X	
Fitness for Duty	Unfit	P(failure) = 1.0	
	Degraded Fitness	5	
	Nominal	1 X	
Work Processes	Poor	2	Crew and procedures that interact well in a good facility.
	Nominal	1	
	Good	0.8 X	

H/47

(1) If all PSF ratings are nominal, then the Diagnosis Failure Probability = 10E-2

(2) Otherwise,	Time	Stress	Complexity	Experience/ Training	Procedures	Ergonomics	Fitness for Duty	Work Processes	
Diagnosis: 10E-2x.01	x.2	x1	x.5	x.5	x.5	x1	x.8	=2E-5	
					2E-5 x .05 = 1E-6			Diagnosis	
					Combines diagnostics with HEP for walkdown HEP-WLKDWN-DEPEN (5e-2)				Failure Probability

